

CALIFORNIA ENERGY COMMISSION

DIVISION OF FINANCIAL SERVICES
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**NOTICE OF PROPOSED AWARDS****American Recovery and Reinvestment Act of 2009****Cost Share for Selected Federal Funding Opportunity Announcement****PON-09-002**

**(DE-FOA 000015, 000032, 000033, 000036, 000055, 000057, 000058,
000065, 000075, 000082, 000085, 000092, 000107, 000109, 000118,
000120, 000115, 000122)**

September 27, 2010

On December 22, 2009, the California Energy Commission (Energy Commission) released a Program Opportunity Notice (PON) and Grant Solicitation and Application Package PON-09-002 entitled "American Recovery and Reinvestment Act (ARRA) of 2009 Cost Share" under the Public Interest Energy Research (PIER) Program. The solicitation announced that the Energy Commission plans to allocate up to \$35 million of electricity funds for cost share funding to those that: meet all the eligibility requirements stated in the application, including receiving ARRA funding from the federal government under one or more of the following federal opportunity announcements (herein collectively referred to as FOAs).

- FOA 000015: Carbon Capture and Sequestration from Industrial Sources and Innovative Concepts for Beneficial CO₂ Use
- FOA 000032: Geologic Sequestration Training and Research
- FOA 000033: Site Characterization of Promising Geologic Formations for CO₂ Storage
- FOA 000036: Smart Grid Demonstrations
- FOA 000055: Solid State Lighting Product Development – Round VI
- FOA 000057: Solid State Lighting U.S. Manufacturing – Round 1
- FOA 000058: Smart Grid Investment Grant Program
- FOA 000065: Advanced Research Projects – Energy (ARPA-E)
- FOA 000075: Enhanced Geothermal Systems Component Research and Development Analysis
- FOA 000082: Solid State lighting Core – Round IV
- FOA 000085: High Penetration Solar Deployment
- FOA 000092: Enhanced Geothermal Systems Demonstration
- FOA 000107: Energy Efficient Information and Communication Technology
- FOA 000109: Geothermal Technologies Program
- FOA 000115: Advanced Energy Efficient Building Technologies
- FOA 000118: Training Program
- FOA 000120: Hydroelectric Facility Modernization
- FOA 000122: Community Renewable Energy Deployment

In accordance with the grant solicitation and application package, each proposal was screened for completeness and reviewed by the Energy Commission staff. The Energy Commission's Technical Advisory Committee (TAC) reviewed, evaluated, and scored each application, using the criteria prescribed in the application package, including the requirement of receiving ARRA funding from the federal government, meeting the PIER Program's statutory requirements and goals and directly benefiting Californians. Based on the TAC's scores and directions from the Research, Development and Demonstration (RD&D) Committee, the proposed Energy Commission funding recommendations are listed in the attached table, "Notice of Proposed Awards and Results of Submitted Proposals," for the FOAs listed previously.

The attached table identifies applicants selected to receive funding, the project title, the amount of recommended funding by the RD&D Committee, and scoring information. Under Score status, applicants who did not receive ARRA funding from the federal government, did not meet the requirements of an eligible project or did not receive a passing score are shown as "not awarded".

If the applicant receives ARRA funding from the federal government, the Energy Commission's cost share is contingent upon the approval of the requested funding during a Commission Business Meeting. This notice is being mailed to all parties who submitted a proposal to this solicitation and is also posted on the Energy Commission Web Site:

<http://www.energy.ca.gov/contracts/index.html>

Persons wishing further information about this matter may contact Virginia Lew at (916) 327-1729 or by email vlew@energy.state.ca.us.

**California Energy Commission
Public Interest Energy Research Program (PIER)
Notice of Proposal Awards and Results of Submitted Proposals
Solicitation PON-09-002**

DE-FOA 000015, 000032, 000033, 000036, 000055, 000057, 000058,
000065, 000075, 000082, 000085, 000092, 000107, 000109, 000115,
000118, 000120, 000122



American Recovery and Reinvestment Act of 2009 Cost Share



FOA 000015: Carbon Capture and Sequestration from Industrial Sources and Innovative Concepts for Beneficial CO2 Use

Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended ⁽¹⁾	DOE Funding Requested	Score ⁽²⁾
	C6 Resources LLC	Carbon Capture and Sequestration for Industrial Sources	\$300,000	\$0	\$650,000,000	Not Awarded
Total Funds Recommended			\$300,000	\$0	\$650,000,000	

FOA 000032: Geologic Sequestration Training and Research

Rank	Prime Applicant	Title	PIER Funds	PIER Funds	DOE Funding	Score Status*
	No Applicants					
Total Funds Recommended			\$0	\$0	\$0	

FOA 000033: Site Characterization of Promising Geologic Formations for CO2 Storage

Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended ⁽¹⁾	DOE Funding Requested	Score ⁽²⁾
1	Terralog Technologies USA, Inc.	Characterization of Wilmington Graben for Large Scale CO2 Storage	\$500,000	\$500,000	\$4,819,815	87
Total Funds Recommended			\$500,000	\$500,000	\$4,819,815	

FOA 000036: Smart Grid Demonstrations

Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended ⁽¹⁾	DOE Funding Requested	Score ⁽²⁾
1	Southern California Edison	Fault Current Limiting Superconducting Transformer	\$767,134	\$767,134	\$10,336,000	92
2	Seeo Inc.	Solid State Batteries for Grid Scale Energy Storage	\$600,000	\$600,000	\$6,196,060	88
3	Amber Kinetics, Inc.	Utility Scale Flywheel Energy Storage Demonstration	\$400,000	\$369,466	\$3,694,660	82
3	EnerVault Corp.	Flow Battery Solution to Smart Grid Renewable Energy Applications	\$476,428	\$476,428	\$4,764,284	82
4	Sacramento Municipal Utility District	Premium Power Distributed Energy Storage Systems Demonstration	\$541,712	\$227,000	\$2,270,000	81
Total Funds Recommended			\$2,785,274	\$2,440,028	\$27,261,004	

FOA 000055: Solid State Lighting Product Development - Round VI

Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended ⁽¹⁾	DOE Funding Requested	Score ⁽²⁾
	No Applicants					
Total Funds Recommended			\$0	\$0	\$0	

FOA 000057: Solid State Lighting U.S. Manufacturing - Round 1

Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended ⁽¹⁾	DOE Funding Requested	Score ⁽²⁾
1	Applied Materials	Development of Advanced Manufacturing Process for Light Emitting Diode Devices	\$500,000	\$500,000	\$3,993,911	85
Total Funds Recommended			\$500,000	\$500,000	\$3,993,911	

FOA 000058: Smart Grid Investment Grant Program

Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended ⁽¹⁾	DOE Funding Requested	Score ⁽²⁾
1	Electric Power Group (3)	CAISO Synchrophasor Technology Investment and Implementation	\$1,000,000	\$999,743	\$32,000,000	91
2	Glendale Water and Power	Automated Metering Infrastructure/Meter Data Management Software Project	\$1,000,000	\$1,000,000	\$20,000,000	86
2	Burbank Water and Power	Smart Grid High Concentration Solar Photovoltaic Integration Project	\$1,000,000	\$1,000,000	\$20,000,000	86
3	Modesto Irrigation District	Smart Grid Deployment and Installation Project (SGDIG)	\$149,315	\$149,315	\$1,493,149	85
Total Funds Recommended			\$3,149,315	\$3,149,058	\$73,493,149	

FOA 000065: Advanced Research Projects - Energy (ARPA-E)

Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended ⁽¹⁾	DOE Funding Requested	Score ⁽²⁾
1	Stanford University	Large Scale Energy Reduction through Sensors Feedback and Information Technology	\$500,000	\$500,000	\$5,006,011	71
	PAX Streamline	Blown Wing Technology for Low Cost Wind Power	\$300,000	\$0		Not Awarded
Total Funds Recommended			\$800,000	\$500,000	\$5,006,011	

FOA 000075: Enhanced Geothermal Systems Component Research and Development Analysis

Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended ⁽¹⁾	DOE Funding Requested	Score ⁽²⁾
1	Simbol Mining Corporation	Technologies for Extracting Valuable Metals and Compounds from Geothermal Fluids	\$380,000	\$380,000	\$3,000,000	80
	Science Applications International Corporation	An Advanced Simulation/Production Predictive Simulator for Enhanced Geothermal Systems	\$256,394	\$0		Not Awarded
	University of Southern California	Geomechanical Modeling and a Reservoir Modeler for Geysers Geothermal Field	\$380,000	\$0		Not Awarded
Total Funds Recommended			\$1,016,394	\$380,000	\$3,000,000	

FOA 000082: Solid State Lighting Core - Round IV						
Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended ⁽¹⁾	DOE Funding Requested	Score ⁽²⁾
	No Applicants					
Total Funds Recommended			\$0	\$0	\$0	
FOA 000085: High Penetration Solar Deployment						
Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended ⁽¹⁾	DOE Funding Requested	Score ⁽²⁾
	No Applicants					
Total Funds Recommended			\$0	\$0	\$0	
FOA 000092: Enhanced Geothermal Systems Demonstration						
Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended ⁽¹⁾	DOE Funding Requested	Score ⁽²⁾
	No Applicants					
Total Funds Recommended			\$0	\$0	\$0	
FOA 0000107: Energy Efficient Information and Communication Technology						
Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended ⁽¹⁾	DOE Funding Requested	Score ⁽²⁾
1	SeaMicro, Inc.	Volume Server Power Reduction	\$250,000	\$250,000	\$9,300,000	90
2	Edison Materials Technology Center (EMTEC)	Development of Very Dense Liquid Cooled Compute Platform	\$250,000	\$250,000	\$2,843,985	85
3	Federspiel Controls, Inc.	Data Center Energy Efficient Cooling Control Demonstration	\$250,000	\$250,000	\$584,078	75.5
Total Funds Recommended			\$750,000	\$750,000	\$12,728,063	

FOA 0000109: Geothermal Technologies Program

Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended ⁽¹⁾	DOE Funding Requested	Score ⁽²⁾
1	Ram Power	New River Geothermal Research Project	\$389,222	\$389,222	\$5,000,000	77
Total Funds Recommended			\$389,222	\$389,222	\$5,000,000	

FOA 0000115: Advanced Energy Efficient Building Technologies

Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended ⁽¹⁾	DOE Funding Requested	Score ⁽²⁾
1	Soladigm, Incorporated	Low Cost, High Energy Saving, Solid State Dynamic Windows	\$400,000	\$400,000	\$1,915,855	77
	PAX Streamline	High Efficiency Regeneration for Liquid Dessicant Air Conditioning	\$400,000	\$0	\$0	Not Awarded
	Chromasun, Incorporated	Solar Cooling of an Office Building Using Concentration Collectors	\$400,000	\$0	\$0	Not Awarded
Total Funds Recommended			\$1,200,000	\$400,000	\$1,915,855	

FOA 0000118: Training Program

Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended ⁽¹⁾	DOE Funding Requested	Score ⁽²⁾
	No Applicants					
Total Funds Recommended			\$0	\$0	\$0	

FOA 0000120: Hydroelectric Facility Modernization

Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended ⁽¹⁾	DOE Funding Requested	Score ⁽²⁾
	No Applicants					
Total Funds Recommended			\$0	\$0	\$0	

FOA 0000122: Community Renewable Energy Deployment

Rank	Prime Applicant	Title	PIER Funds Requested	PIER Funds Recommended ⁽¹⁾	DOE Funding Requested	Score ⁽²⁾
1	University of California Davis	West Village Energy Initiative	\$500,000	\$500,000	\$2,500,000	73
Total Funds Recommended			\$500,000	\$500,000	\$2,500,000	
Grand total				\$9,508,308	\$789,717,808	

Notes:

⁽¹⁾ All PIER funds recommended in this NOPA are contingent on applicant receiving ARRA funds from DOE and approval of the proposed agreement at an Energy Commission Business Meeting. Actual award amounts depend on actual DOE funding amounts (Energy Commission contribution restricted to limits set in PON- 09-002 for the specified by FOA#).

⁽²⁾ Not Awarded, applies to applicants who did not receive ARRA funding from the federal government, did not meet the requirements of an eligible project or did not receive a passing score.

Dated: September 27, 2010

Expires: October 4, 2010